

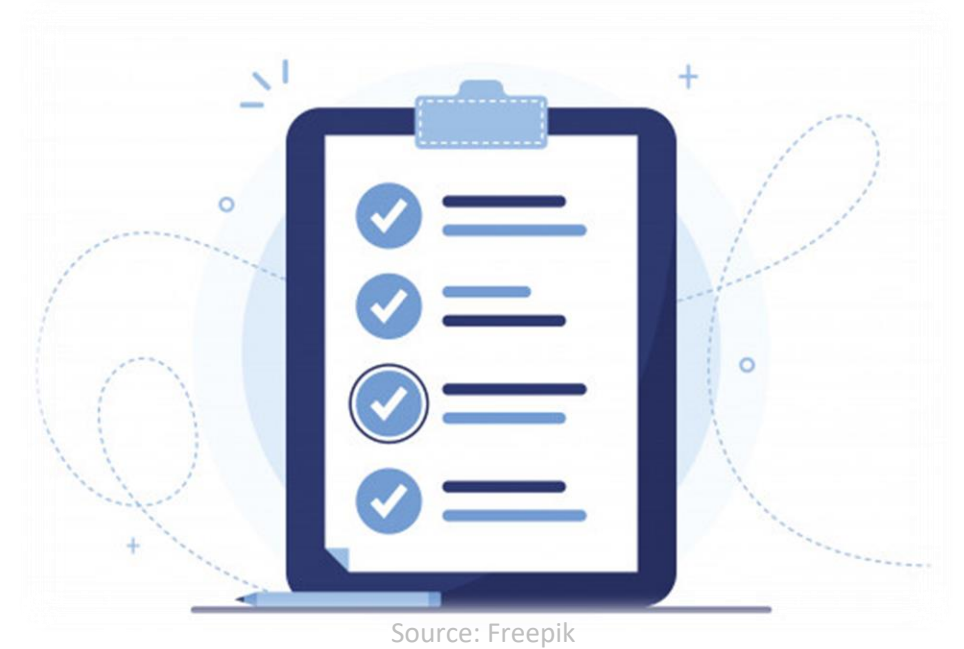
Need for Cyber Security

Types of Cyber Attacks



In today's session, you will learn about:

- Types of Cyber Attacks
- Industry examples of Cyber Attacks



Source: Freepik

What are the different types of Cyber Attacks?



Created by fae frey
from Noun Project

Microsoft has proposed a threat classification called STRIDE from the initials of threat categories:

Spoofing of user identity

Tampering

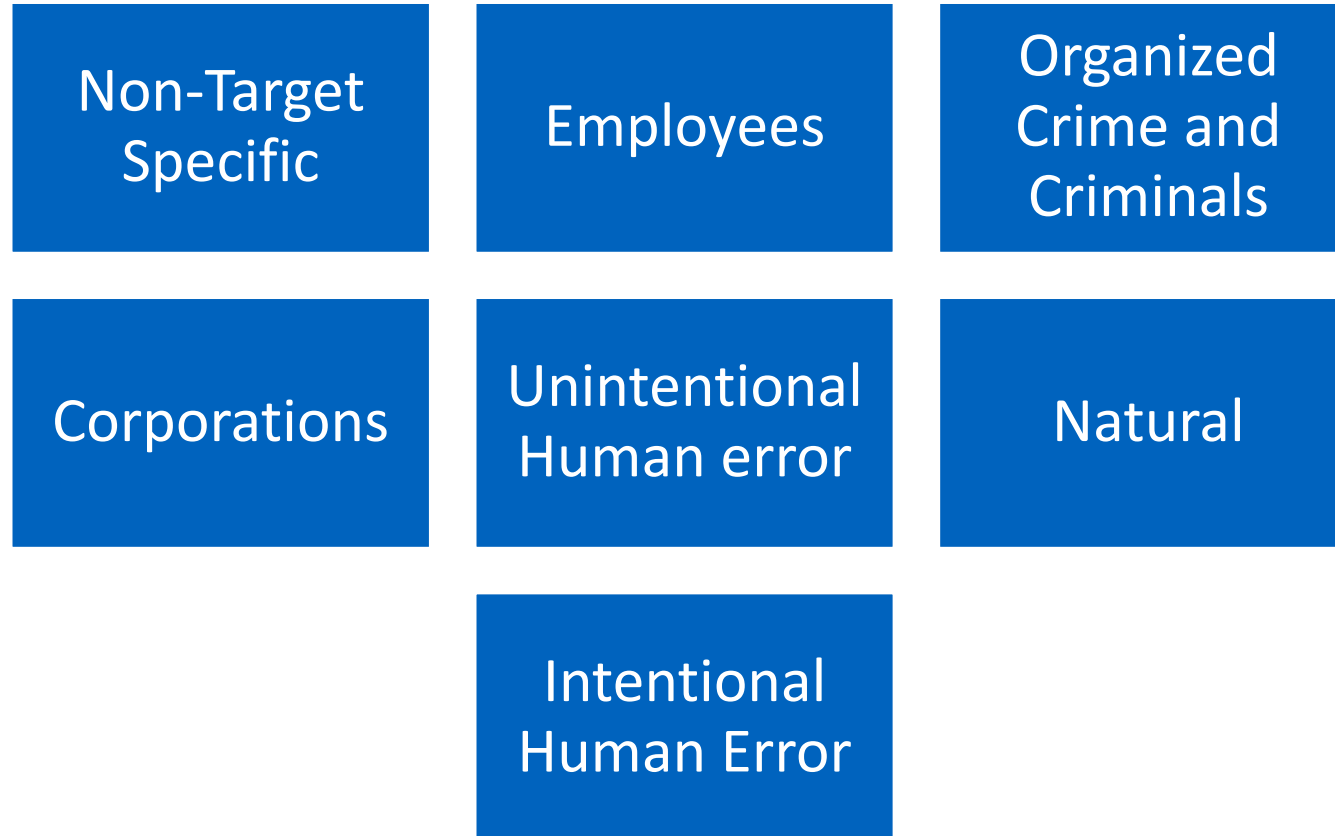
Repudiation

Information disclosure (privacy breach or data leak)

Denial of Service (D.o.S.)

Elevation of privilege

Threat agents (individuals and groups) can be classified as follows:





Network
Attacks

Application
Attacks

Phishing
Attacks

Malwares

What is a Network Attack?



Created by fae frey
from Noun Project

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Name of the Activity

Behind the Door Number

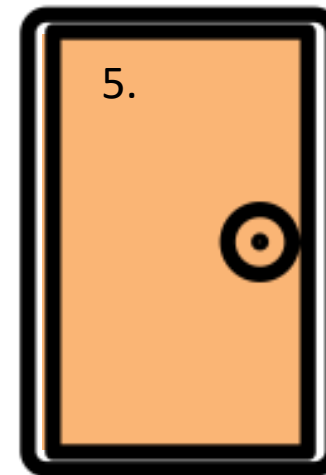
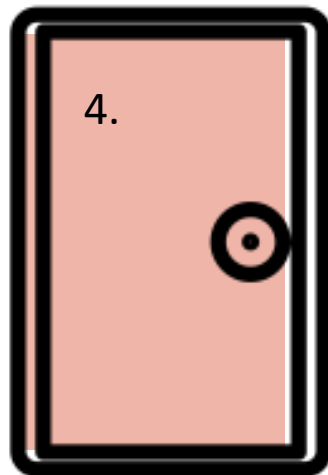
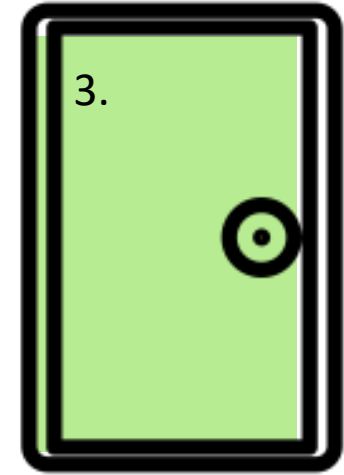
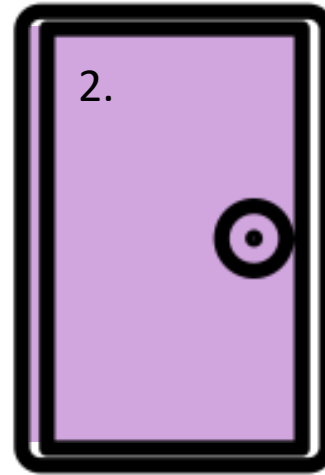
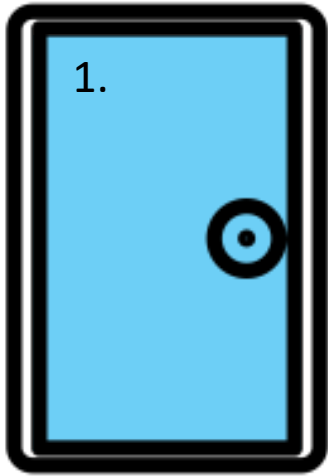
Instructions

Mode: **In-session**

Duration: **5 minutes**

Materials Required: **None**





1. Injection
2. Cross-Site Scripting
3. Spoofing
4. Trojan Horse
5. HTTP flood



Source: The Noun Project

Name of the Activity

Taboo

Instructions

Mode: **In-session**

Duration: **5 minutes**

Materials Required: **None**



1. Phishing attack
2. Social phishing
3. Spear phishing attack
4. Whaling
5. Vishing (Voice Phishing or VoIP Phishing)



Source: The Noun Project

Name of the Activity

Identify the Phishing Attack

Instructions

Mode: **In-session**

Duration: **5 minutes**

Materials Required: **None**



- This is a type of phishing attack that is targeted at specific individuals, groups of individuals or companies.
Spear - Phishing
- In the recent years, phishing techniques evolved much to include social media like Facebook or Twitter.
Which attack is this? **Social Phishing**
- It is a type of phishing attack specifically targeted at senior executives or other high profile targets within a company **Whaling**
- This phishing attack is often combined with caller ID spoofing that masks the real source phone number and instead of it displays the number familiar to the phishing victim or number known to be of a real banking institution **Vishing**

1. Virus
2. Worm
3. Trojan



Source: The Noun Project

Name of the Activity

Match the Column

Instructions

Mode: **In-session**

Duration: **5 minutes**

Materials Required: **None**



1. Watering Hole Attack
2. Worm
3. Trojan
4. Spoofing
5. Virus

- a. A malicious program able to inject its code into other programs/ applications or data files and the targeted areas become “infected”
- b. A technique used to masquerade a person, program or an address as another by falsifying the data with purpose of unauthorized access.
- c. A malicious program category, exploiting operating system vulnerabilities to spread itself.
- d. Attackers use multiple staged approaches to gain access to the targeted information.
- e. A type of malware software that masquerades itself as a not malicious.

1- d

2- c

3- e


4- b

5- a

What is Hacking?



Created by fae frey
from Noun Project

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- The background of the slide features a dark, moody image of a person in a hoodie, likely representing a hacker, with a large question mark overlaid on their face. The background is filled with faint binary code (0s and 1s).
- **1 in 36 mobile phones have high-risk apps**
 - **The number of mobile ransomware infections increased by 33% in 2020**
 - **There is a hacker attack every 39 seconds**
 - **43% of cyber attacks target small business**
 - **The global average cost of a data breach is \$3.9 million**

Source: Scroll.in

- White Hat Hackers
- Black Hat Hackers
- Grey Hat Hackers
- Script Kiddies
- Green Hat Hackers
- Hacktivist
- Red Hat Hackers



Source: Simplylearn.com

Name of the Activity

Behind the Door Number

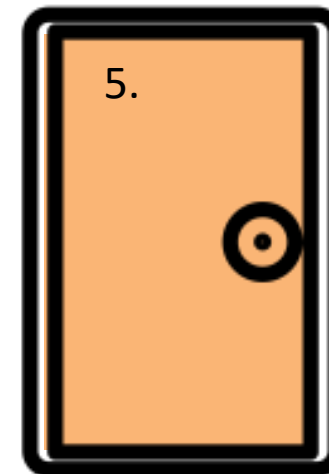
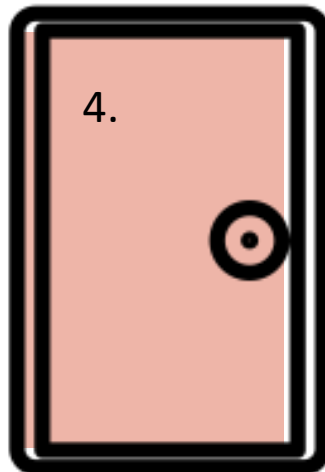
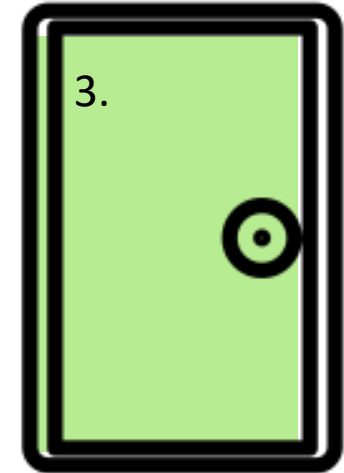
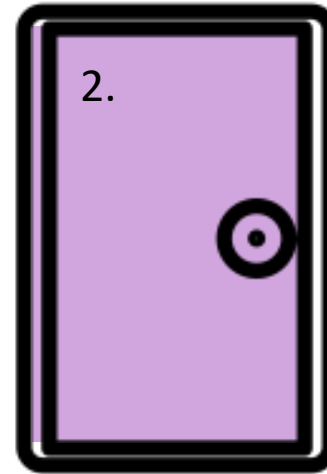
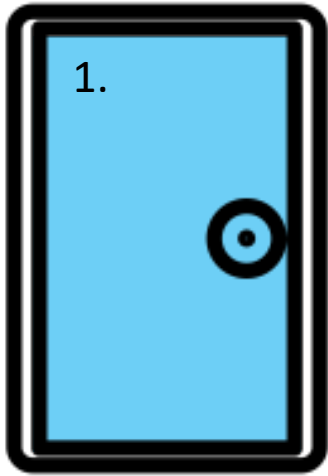
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What are some Industry Examples of Hacking?



Created by fae frey
from Noun Project

1. Have an Incident Response (IR) plan in place
2. Implement encryption across the board
3. Patch vulnerabilities quickly
4. Ensures systems are supported
5. Upgrade Cyber Security Tools



Source: The Noun Project

In this session, you learnt about:

- Types of Cyber Attacks
- Industry examples of Cyber Attacks

